



April 2016

LOS ANGELES BASIN GEOLOGICAL SOCIETY MEETING ANNOUNCEMENT

April 28 (Thursday)

Robert W. Clayton, Ph.D.

Professor of Geophysics

**Seismological Laboratory, Division of Geological and Planetary Sciences,
California Institute of Technology**

STRUCTURE OF THE LOS ANGELES BASIN REVEALED BY DENSE SEISMIC SURVEYS

Abstract

Dr. Clayton will summarize results derived from recent petroleum industry data recorded in the Long Beach and Rosecrans areas of the Los Angeles Basin. He will present near-surface results that enable characterization of the top 800 meters in these areas. The data are also used to image deeper structure (to the Moho) and to examine seismicity associated with the Newport-Inglewood fault zone (NIFZ). The NIFZ appears to cut through the Moho directly beneath its surface trace, perhaps providing a pathway for helium anomalies observed there. Additionally, a dense seismic profile across the Los Angeles Basin provides images of the bottom of the basin and the Moho beneath it.

Dr. Clayton will conclude with a description of the Community Seismic Network, which is a new network designed to monitor strong motion in the Los Angeles region.

Speaker's Biography

Dr. Clayton received his Ph.D. degree from Stanford University in 1981, and has been a Professor of Geophysics at the California Institute of Technology for the past 35 years. His general research interests are in determining variations in Earth properties from seismic waves. He is pursuing this research on many scales, from the fine scale of crustal and exploration seismology to the larger scale of regional seismology. His specific research interests include exploration and crustal geophysics, numerical wave simulation, tomographic reconstructions, inverse methods, and tectonics. Over the past decade he has conducted high-resolution surveys in Mexico, Peru, and central California to image subduction systems. More recently, he has utilized high-resolution industry and academic surveys to study the structure and seismic hazard of the Los Angeles Basin region.

Meeting Time, Place, Cost and Reservations

Time:

Thursday, April 28, 2016

Meeting Agenda

Lunch Served: 11:30 AM to 12:00PM

Announcements: 11:45 AM to 12:00 PM

Guest Speaker: 12:00 PM to 12:45 PM

Questions/Close: 12:45 PM to 1:00 PM

Place:

The Grand at Willow Street Conference Center located at 4101 East Willow Street, Long Beach, CA (562-426-0555). Take Lakewood Boulevard south from the San Diego Freeway (405), turn west onto Willow Street, and turn right onto Grand Avenue at the sign for the Center. Park free in the garage structure.

Cost:

Lunch and Speaker: \$25.00 with reservations
\$30.00 without reservations

Retired: \$20.00

Student: **\$5.00**

Meeting Reservations:

We encourage you to make your reservations using the LABGS web site, at www.labgs.org

Otherwise, call Ryan Weller at (562) 637-6019, or e-mail ryweller@gmail.com.

PLEASE Make: ☺ Reservations must be made by 10:00 AM Tuesday morning prior to the Thursday meeting to receive the discount price noted above. As always, walk-ins are welcome.

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Looking for Student Lunch sponsors.

If you or your business/organization would like to become a Student Lunch Sponsor, please let us know.

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